

# FALES' PATENT VARIABLE BENCH PLANE, CONSTITUTING

Carpenters' Plow, Dado, Filletster, Matching, Sash Hollows, Rounds, Beads, Side Rabbets, Snipe-Bill, Case Moulding, Chamfer, Quarter Rounds, Nosing and V Planes.

The Latest, Best, most Compact and Serviceable, the greatest Time and Labor-saving Combination of Tools ever invented. The most ingenious and useful combination ever devised. The instrument combines over *Eighty Different Wood-Working Planes*, forming the most complete, economical, and lowest price Set of Tools ever introduced.

Fig. 1.

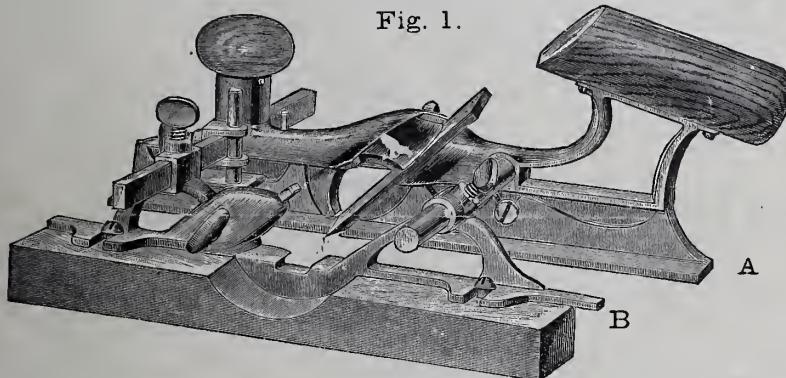


Figure 1 comprises the Main and Auxiliary Stock connected by Cross-Bars. The Main Stock A has  $\frac{3}{8}$  Dado Form and Cutter attached, and shows how Forms and Cutters for the various Planes here named are applied. The Cutter represented in Auxiliary Stock B shows how Sash and Tonguing Cutters are applied, and, with the necessary Forms and Cutters named below, will operate as Carpenters' Plows, Dados, Front and Back Filletster, Rabbet, Tonguing and Grooving Planes of all sizes, and a variety of Sash Planes.

## LIST OF PRICES.

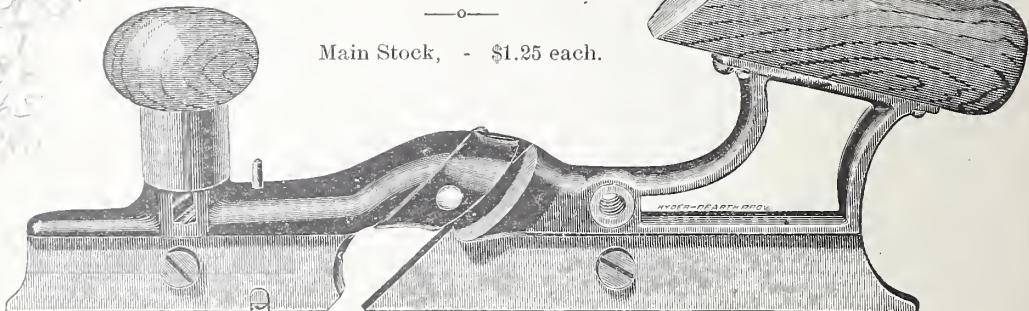
Main Stock,	\$1.25
Auxiliary Stock and Fence, with two Tonguing Cutters,	1.05
Cross Bars and Depth Gauge,	.40
Plow and Dado Spurs and Cutters, 3-16, $\frac{1}{4}$ , 5-16, at 40 cents.	1.20
Plow and Dado Forms and Cutters, $\frac{3}{8}$ , $\frac{1}{2}$ , $\frac{5}{8}$ , $\frac{3}{4}$ , $\frac{7}{8}$ , at 50 cents,	2.50
Plow, Dado, Rabbet and Filletster Forms and Cutters, $1\frac{1}{8}$ inch wide,	.75
Sash Cutters, Ogee, Oval and Chamfer, at 25 cents,	.75
	\$7.90

It will be seen by the above list that a Carpenter's Plow and Dado Plane with nine sizes of Cutters, a Matching Plane of all sizes, a Back and Front Filletster Sash Plane with three styles of Cutters, and a Rabbet Plane, cost but \$7.90, which take the place of wood Planes costing over \$25.

# Hollows, Rounds, and Bead Planes.

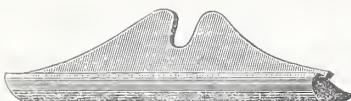
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Main Stock, - \$1.25 each.

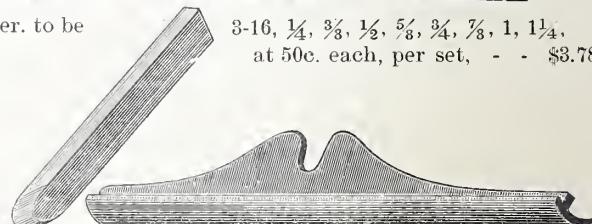


Detached Round Form and Cutter. to be  
attached to Main Stock.

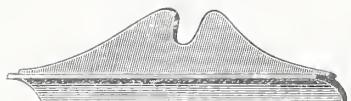
3-16,  $\frac{1}{4}$ ,  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{5}{8}$ ,  $\frac{3}{4}$ ,  $\frac{7}{8}$ , 1,  $1\frac{1}{4}$ ,  
at 50c. each, per set, - - \$3.78



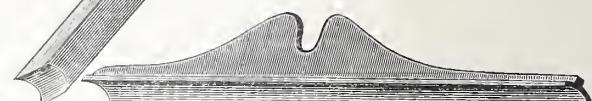
Detached Hollow Form and Cutter, to  
be attached to Main Stock.



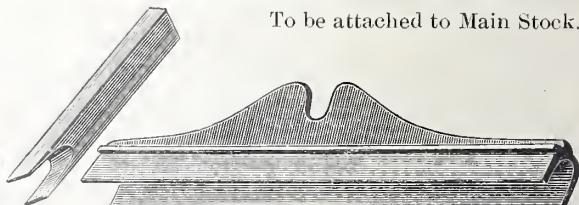
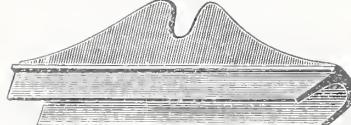
3-16,  $\frac{1}{4}$ ,  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{5}{8}$ ,  $\frac{3}{4}$ ,  $\frac{7}{8}$ , 1,  $1\frac{1}{4}$ ,  
at 50c. each, per set, - - \$3.78



Detached Bead Form and Cutter.



To be attached to Main Stock.



Side Bead,  $\frac{1}{8}$ , 3-16,  $\frac{1}{4}$ ,  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{5}{8}$ , at 50 cents each,  $\frac{3}{4}$ ,  $\frac{7}{8}$ , at 75 cents each, - - - \$4.50  
Center Bead,  $\frac{1}{8}$  3-16,  $\frac{1}{4}$ ,  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{5}{8}$ ,  $\frac{3}{4}$ ,  $\frac{7}{8}$ , at 50 cents each, - - - - - 4.00

## ADJUSTABLE PLOW AND DADO SPUR.



To be used in Main Stock, with 3-16,  $\frac{1}{4}$ , and 5-16 Plow and Dado Cutter, each, - \$0 15

### LIST AND PRICES OF OTHER ATTACHMENTS.

Plow and Dado Forms and Cutters, 1-16, 3-32, $\frac{1}{8}$ , at 50c.,	-	-	-	\$1 50
Plow and Dado Cutters only, 7-16, 9-16, 11-16, 13-16, 15-16, at 25c.,	-	-	-	1 25
Filletster Cutter, $1\frac{1}{2}$ inch wide,	-	-	-	30
Side Rabbet Cutter,	-	-	-	25
Snipe's Bill Forms and Cutter,	-	-	-	50
Nosing Forms and Cutters, $\frac{3}{8}$ , 1, $1\frac{1}{8}$ , $1\frac{1}{4}$ , at 75c.,	-	-	-	3 00
$\frac{3}{8}$ Quarter Round Forms and Cutter,	-	-	-	75
$\frac{3}{8}$ Ogee Case Moulding Forms and Cutter,	-	-	-	76
V Shape Forms and Cutter,	-	-	-	75
Chamfer Forms and Cutter,	-	-	-	50
Extra Cross-Bars, 10 inches long, per pair,	-	-	-	40
Extra Plow and Dado Forms Spurs,	-	-	-	15
Extra Form Screws,	-	-	-	5
Extra Cutter Clamp Thumb Screws,	-	-	-	5
Extra Depth Gauges,	-	-	-	20
Extra Main Stock Spurs,	-	-	-	15

### INSTRUCTIONS.

Plow and Dado Cutters, 7-16, 9-16, 11-16, 13-16, 15-16, are used with  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{5}{8}$ ,  $\frac{3}{4}$ ,  $\frac{7}{8}$ , Plow and Dado Forms by inserting between Front Form and Main Stock 1-16 inch strip, increasing width 1-16 to match the Cutters, thus using one Form for two size Cutters, and a saving of 25 cents each.

In working Sash or Matching, the  $\frac{3}{8}$  Dado Form and Cutter is used on Main Stock as shown in Fig. 1.

A Cutter is used in Auxiliary Stock, and with its Fence is moved on Cross-Bars and set to cut any required width, using  $\frac{1}{4}$  inch Cutter for thin and  $\frac{1}{2}$  inch for thick Tonguing. These Cutters are furnished with Auxiliary Stock.

On Front Cross-Bar is an Adjustable Depth Gauge. In working Chamfer Sash, a beveled piece is furnished with Cutter for use on Depth Gauge, to gauge the cut.

In making other Sash, the Adjustable Fence attached to Auxiliary Stock is set to give any width of Fillet required on Sash, and gives a bearing on Auxiliary Stock which guides the Plane.

In planing grooves, a Cutter the right width is inserted in Main Stock, moving the Fence and Auxiliary Stock on Cross-Bars and set to guide the Plane where cut is wanted. The same method is used where Fence is required for other work.

For some operations it will be necessary to reverse or turn end for end the Fence in order to bring it close under the Cutter in Main Stock.

## REVERSIBLE AND ADJUSTABLE FENCE.

Grooving Attachment to be applied to Main Stock, and, with necessary Cutters, constitutes a Grooving Plane of all sizes for Tonguing and Grooving. By reversing the Fence, a Front Filletster can be made.



In Tonguing and Grooving we recommend the use of an Extra Main Stock with the Grooving Attachment, shown in Fig. 2, applied.

This allows one Plane each for Tonguing and Grooving, which is a convenience.

The Extra Main Stock will be found useful in other work and will repay the cost.

### SOME OF THE SPECIAL ADVANTAGES CLAIMED.

The ease and quickness with which the tools can be adjusted from one Plane to another.

The different forms stand in the same relation to the Main Stock as different bits for boring holes do to the brace to which they are attached and detached. They are easily and quickly adjusted, are made of metal, and not liable to get out of order either by friction, warping, swelling or shrinkage, as is the case with all wooden tools. This Plane will perform a variety of useful operations impossible with any other tool in use.

It is the best Carpenters' Plow ever invented, for the following reasons:

Every Dado acts as a Plow; having Spurs in advance of the Cutter, will cut as well across as with the grain. The Form being the width of the Cutter, the Plane runs steadily, not allowing the Cutters to tear out pieces in working curly, cross-grained wood.

The Patented Form Plates are adjustable. The Front Form can be set for a close mouth. The Back Form sets against the Cutter and prevents springing.

In purchasing this valuable combination of Tools, a saving is effected of nearly two-thirds the cost of the same Tools if they were bought separately in the old style.

The weight of complete Set is less than 30 lbs., and can be packed in space less than one cubic foot.

They are universally endorsed by the vast number of Carpenters using them.

When a complete set of these Tools is not wanted, any separate part can be ordered and other parts added when desired. In placing this Tool on the market we have aimed to so perfectly construct the various parts that no fault could be found, and believe the desired result has been accomplished. The testimony of many carpenters attest the superiority of this combination over all other Planes. We therefore safely guarantee satisfaction to the purchaser. All orders and for further information,

ADDRESS OTIS A. SMITH,  
ROCKFALL, CONN.,  
Sole Manufacturer.